

### Abstract

The present invention relates to a bone system model comprising a mineralized matrix and osteoblasts, characterized in that the osteoblasts are deposited onto the matrix so as to form a layer at confluence and/or nodules, and the osteoclasts are deposited onto the layer and/or the nodules, and also to bone system models affected by various pathologies. The invention also covers the uses for carrying out screenings and tests for aggressiveness and for toxicity tests.